

Short notes on the vernal Lepidoptera fauna of Beybağı near Darende (Malatya Province, East Turkey)

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Abstract: Short notes on the vernal Lepidoptera fauna of Beybağı near Darende (Malatya Province, East Turkey). *Cesa News* 155: 1-21, 16 figs. 1 map.

Totally 129 lepidopteran species of 23 families collected from Beybağı (Darende, Malatya Pr., East Turkey) are listed. Faunistical and taxonomical remarks are added to some species. In total, 48 species were reported here as new to the fauna of Malatya Province Among them, *Cochylis similana* Raz. (*Tortricidae*) is also new to the fauna of Turkey.

Keywords: Lepidoptera, Darende, Malatya, Turkey, fauna.

Three years ago, the authors published the Pterygota fauna of Malatya Province (East Turkey) (Koçak & Kemal, 2015). They listed 502 lepidopteran species in that publication. The conditions that lead to the existence of this paper may be summarized in the following way:

In the stormy spring season, the second author found an opportunity to visit Darende district [44E] (Malatya Province [44], East Turkey) on two days in late May 2017. On 22 May, 2017, the author left Van for Darende (about 700 km westward) under a heavy snow storm. From Ankara to Van, on 25 May, the weather was a little better than the former. At the following locality near Darende, the moths were collected by using light trap: Beybağı 1.6km N 1200m (44Ei) (see also **Map 1**)², heavily eroded calcareous lands, with scattered steppe patches (**Figs. 1-3**). *Crataegus*, *Salix*, and *Rosa*, *Berberis* bushes are sporadic. Among the herbaceous plants the following genera are remarkable: *Aethionema* (*Brassicaceae*), *Anchusa* (*Boraginaceae*), *Arnebia densiflora* (*Boraginaceae*), *Asphodelus* (*Asphodelaceae*), *Galium* (*Rubiaceae*), *Linum* (*Linaceae*), *Muscari* (*Asparagaceae*), *Onobrychis* (*Fabaceae*), *Onosma* (*Boraginaceae*), *Phlomis* (*Lamiaceae*), *Salvia* (*Lamiaceae*), *Tournefortia* (*Boraginaceae*), *Tragopogon* (*Asteraceae*), *Eremurus* (*Liliaceae*). The minimum temperatures by night were 4°C on 22 May with a clear sky, on 25 May, 9°C but stormy.

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² also called as Günpınar kvş [road crossing] 1190 m



Figs. 1-3 – Overview habitat from different sides: Darende, Beybağı 1.6km N, 1200m (44Ei), 2017, A. Koçak (Cesa)

A similar entomological trip on the same route was also realized by the authors in the near past (Kemal & Koçak, 2013).

This kind of dry land and plant cover in Darende is widely distributed. *Prunus armeniaca*-plantations are also common near orchards. Due to the cool weather depending on the season, lowland is preferred here in order to get a satisfactory result for the faunal survey. According to the

obtained results, despite the adverse weather conditions and the poor plant cover, important faunistic findings are not few.

In the same locality, several species were also obtained by day on 25 May. Some adults of the pre-aestival species may also fly in late May, depending upon the climatic conditions or altitudinal feature of their habitats. Therefore, such species could be recorded in the studying area that cannot be considered as truly vernal ones.

Several hundred specimens were collected from this place, and their taxonomical evaluations are still going on. For the time being, 129 species of 23 families are listed below at specific level, in order to determine the fauna. Each species is briefly outlined in the following way; valid name of the taxon, and its range in Turkey mentioned as codes (*vide*, Koçak & Kemal, 2017). Collecting information and remarks are added to some species. All the species have been identified by the authors.

For the first time, 48 species were reported here as new to the fauna of Malatya Province. Among them, *Cochylis similana* Raz. is also recorded here as new species for the fauna of Turkey.

The materials studied are preserved in coll. Cesa-33. ³

Butterflies

Vernal species are poorly represented in the collecting site.

Argynnidae

1. *Melitaea (Cinclidia) ornata* Christoph, 1893

Range in Turkey as codes: 01 02 03 05 06 07 08 10 12 13 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 35 36 38 41 42 43 44 46 48 49 50 51 55 56 58 60 62 65 66 68 69 70 71 73 76 80 05A 06B 06C 06G 06H 06K 06N 06Nc 06P 06R 06Rd 06S 06V 06Z 13C 13Cm 13F 13G 21L 21Le 21Lf 21N 21Nb 21O 27C 27Cb 27D 27Db 30B 30Bc 30Bx 31F 31Fb 33K 33R 33Rb 33Rg 36F 36Fb 44E 44Ei 44L 44Lc 49E 49Ea 56F 56F1 56fg 56Fp 56Fm 56Fy 56Fs 58C 58G 58Ga 58Gi 62H 65A 65Ao 65Am 65Am4 65D 65Dc 65Dr 65Drb 65F 65Fz 65Fç 65G 65Gf 65Gy 65L 65Le 65N 65Np 65Np7 65Nm 66A 66P 66Pa 73D 73Dg 76D 76Dg 80B 80Bd

Hesperiidae

2. *Carcharodus (s.str.) alceae* (Esper, [1780])

Range in Turkey as codes: 01 03 04 05 06 07 08 09 10 12 13 15 16 17 20 21 23 24 25 26 27 29 30 31 32 33 34 35 36 38 39 41 42 43 44 45 46 47 48 49 50 51 53 56 58 60 62 63 65 66 67 70 71 72 73 74 75 76 78 79 80 01A 01H 01K 01F 04D 04Db 05A 06B 06G 06K 06R 06Rd 06V 06Z 12A 12Ai 13F 13G 13Go 13Gv 13Gw 21L 21Le 21Lf 21N 21Nb 21O 23D 23Da 23I 23Ia 25F 25Fa 27C 27Cb 27D 27Dd 27E 30A 30Aa 30B 30Bd 30Bc 30Bt 30Bx 30Bh 30Bf 30Bj 30Bg 30Bj1 30Bo 30Br 30D 30Da 30Df 30Dt 31A 31Aa 31F 31K 31Ka 31O 33A 33Al 33O 33R 36D 36Db 36F 36Fb 39C 44E 44Ei 44L 44Lc 48A 48Aa 48Ak 48D 48F 49E 49Ea 49Ef 49F 49Fb 56F 63B 63Ba 63D 63E 65A 65Am 65Am1 65Am4 65B 65Bo 65Bx 65D 65Dc 65Dç 65Dd 65Dda 65Df 65Dl 65Do 65Dp 65Dr 65Drb 65Dt 65Dw 65Dn 65E 65Ea 65Eb 65Ed 65F 65Fb 65Fd 65Fg 65Fu 65Fq 65F3 65F1 65Fz 65G 65Gb 65Gn 65K 65Kb 65Kc 65Kl 65Z 65Kö 65Ks 65L 65Le 65N 65Na 65Np 65Np4 65Nm 66A 72E 72Eb 73A 73Ad 73Ad2 73D 73Db 75E 76B 76Bb 76Bf 76Bh 76D 76Da 76Df 78D 78Da 79B 80B 80Bc 80C 80G

3. *Erynnis (s.str.) tages* (Linnaeus, 1758)

Range in Turkey as codes: 01 03 05 06 07 08 11 12 13 14 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 44 45 46 49 50 51 52 54 56 58 59 62 63 65 66 67 69 70 71 73 75 76 78 01H 01K 05A 06B 06C 06D 06G 06K 06N 06Nc 06P 06R 06Rd 06V 06Z 12A 12Aa 13F 13G 13Gw 14F 21N 21Nb 23D 23Dc 23E 23M 25F 25Fa 27C 27Cb 30A 30Aa 30B 30Bc 30Bx 30Bd 30Bh 30Bf 30Bg 30Br 30C 30Ce 30D 30Df 30Dt 31A 31K 31Ka 31L 31La 33K 33R 33Rb 36D 39C 44E 44Ei 44L 44Lc 44O 44Oc 46F 46Fc 46Fd 49E 49Ea 49F 49Fb 56F 63D 65A 65Ai 65Am 65Am4 65At 65D 65Dc 65Dk 65Dl 65Do 65Dob 65Dq 65Dü 65Dn 65Dv 65Dw 65Dt 66A 73A 73Ad 73Ad2 75E 75F 75Fd 78D 78Da

4. *Spialia (Neospialia) orbifer* (Hübner, [1823])

Range in Turkey as codes: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 64 65 66 68 69 70 71 72 73 74 75 76 77 80 05A 06B 06C 06K 06G 06N 06Nc 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 13A 13Ae 13Af 13Ax 13C 13Cd 13E 13Ea 13F 13G 13Gd 13Gv 21L 21Le 21Lf 21N 21Nb 21O 23D 23Dc 23I 23Ia 23Ib 23E 23M 25F 25Fa 25Fb 27C 27Cb 27D 27Db 30A 30B 30D 30Df 30Dt 31F 31K 31O 31L 31La 31A 31M 33K 33O 33R 33Rb 36D 36Dc 36F 36Fb 38H 38Hc 39C 44A 44Aa 44Ab 44E 44Ei 44Ej 44L 44Lc 44O 44Oc 45L 45La 46F 48A 48Ak 48Ah 48F 49E 49F 49Fb 49Ff 56F 56F1 58G 58Ga 58Gd 58Gi 58Gj 62F 63D 63E 65A 65Ai 65Am 65Am3 65Am4 65At 65B 65Bk 65Bo 65Bx 65D 65Dc 65Dç 65Dd 65Dda 65Df 65Dg 65Dk 65Do 65Dq 65Du 65Dv 65G 65Gn 65Gm 65Gz 65F 65Fb 65Fh 65Fg 65Fç 65Fe 65Fr 65Fp 65Fq 65F1 65Fj 65F3 65Fx 65Fz 65K 65Kc 65Kl 65Z 65Kö 65Kz 65Kg 65L 65Le 65N 65Np 65Np1 65Np3 65Np4 65Np7 65Nr2 65Nr4 65Nr6 65Nr7 65Nm 66A 72E 72Ec 72Ei 75E 76C

Remarks: Sporadic, the butterflies fly around its larval food-plants.

³ Cesa Collection: <http://grbio.org/cool/eaaz-xyfc>

Lycaenidae**5. *Glaucopsyche (Apelles) astraea* (Freyer, [1851])**

Range in Turkey as codes: 01 05 07 20 32 33 38 42 44 46 51 58 60 62 66 70 05A 07D 38H 38Hc 38Hf 44E 44Ec 44Ei 46H 46Hc 58G 62E 66A 70B

Remarks: Rare in the studying area, but recorded commonly at higher altitude on the same day. In the past, the author collected this species from Darende 15km W 1500m on 11 5 1973 (17♂♂), and Gürün (Sivas) on 11 5 1973 (2♂♂). Later, the first author observed this species at Mazıkıran Pass (Sivas, Gürün) on 27 5 2007 (Fig. 4).



Fig. 4 - *Glaucopsyche astraea* (Lycaenidae), a male at rest. Sivas Prov., Gürün, Mazıkıran Pass 1800m 27 5 2007, M. Kemal (Cesa)

6. *Glaucopsyche (s.str.) alexis* (Poda, 1761)

Range in Turkey as codes: 01 02 03 04 05 06 07 08 09 11 12 13 14 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 50 51 52 56 58 60 61 62 65 66 68 69 70 71 73 74 76 80 01A 01H 01K 04D 04Db 04I 05A 06A 06B 06C 06K 06N 06P 06R 06Rd 06S 06V 06Z 13D 13Da 13E 13Ea 13F 13G 13Gb 13Gö 13Gğ 13Gv 21L 21Le 21Lf 21Ld 21N 21Nb 23I 25F 25Fa 25Fc 27C 27Cb 27D 27Db 27Dc 27Dd 27F 29A 30B 30Ba 30Bg 30Db 30De 30Df 30Dt 31A 31Aa 31B 31F 31K 31Ka 31L 31La 33A 33Ah 33Ai 33C 33K 36D 36Da 36Dd 36F 36Fb 38H 38Hc 38Hf 44E 44Ei 44I 44Ia 44L 44Lc 46F 46Fc 46Fd 46G 47B 47E 56D 56Db 56F 65A 65Am 65Am1 65Am2 65Am4 65As 65At 65At1 65D 65Dc 65De 65Df 65Dg 65Dj 65Dk 65Dl 65Dq 65Dn 65Dm 65Dr 65Drb 65Dt 65E 65Eb 65Ec 65F 65Fb 65Fd 65Fc 65Fp 65Fe 65Fg 65Fh 65Fq 65Fz 65G 65K 65Kd 65Kg 65Kl 65Z 65L 65Le 65N 65Na 65Np 65Np2 65Nr2 65Nr4 65Nm 66A 69B 73A 73Af 73C 73Cd 73D 73Df 73Dfc 73Dd 73E 73Eb 73H 76B 76Bb 76Bf 76Bh 76D 76Dd 76Dg 80B 80Bc 80C 80D 80E

Remarks: Rare, sympatric with *astraea* in the studying area.

7. *Lycaena (Thersamonia) kefersteinii* (Gerhard, [1850])

Range in Turkey as codes: 01 02 04 05 06 07 08 11 12 13 14 21 23 24 25 29 30 32 33 35 36 38 42 43 44 46 47 50 51 56 58 60 62 63 65 66 68 69 70 71 73 76 01K 02E 02Ec 04C 04D 04Da 05A 06A 06Aa 06B 06K 06Kc 06P 06V 06Z 07A 07Ad 12B 13F 13G 13Gv 14I 14Ib 21O 23D 23Dc 23I 23Ib 25E 25F 25Fa 25Fb 29A 30B 30Bg 30Bk 33K 35S 35Sb 36D 36F 36Fb 38H 38Hc 44E 44Ei 46F 46Fc 46G 46H 46Hc 56F 58C 58G 58Ga 58Gd 58Gi 58Gj 62F 65A 65Am 65Am4 65B 65Bk 65Bn 65Bn1 65Bo 65Bx 65G 65Gc 65Gf 65Gy 65Gn 65Gs 65D 65Dc 65Df 65Dk 65Dr 65Drb 65F 65Fc 65Fd 65Fe 65F1 65Fp 65Fr 65Fz 65G 65Gf 65Gg 65Gy 65K 65Kb 65Kc 65Kl 65Z 65Km 65Kö 65Ks 65Ku 65Ky 65Ky1 65Kz 65L 65Le 65M 65Md 65N 65Np 65Np2 65Nr7 65Nm 66P 66Pa 69B 70C 70Ca 72E 72Eg 72Eh 73C 73Cd 76B

8. *Lycaena (Thersamonia) thersamon* (Esper, [1784])

Range in Turkey as codes: 01 02 03 04 05 06 07 08 10 11 12 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31 32 33 34 35 38 39 40 41 42 43 44 46 48 49 50 51 52 53 55 57 58 59 60 62 66 68 69 70 71 74 76 77 79 80 01F 02F 02Fc 05A 06A 06B 06E 06H 06K 06Kg 06P 06R 06Rd 06V 06Z 12A 12Ab 12B 23D 23Dc 23I 23Ia 23E 25F 25Fa 27C 27Cb 31A 31Aa 31L 31La 33A 33O 33R 33Rb 36F 36Fb 39C 44E 44Ei 44F 44Fa 44Fb 44L 44Lc 46F 46E 46Eb 46G 48A 48Aa 48Al 48Ac 48Af 49E 49Ea 58C 58G 58Gd 58Gi 62D 62G 62H 62F 66A 70C 70Ca 70Cb 76C 76D 76Da 76Dd 79B

9. *Polyommatus (s.str. (Cyaniris)) bellis* (Freyer, [1842])

Range in Turkey as codes: 01 03 04 05 06 07 08 10 12 13 14 16 17 18 19 23 24 25 27 28 29 30 32 33 34 36 37 38 39 42 44 46 49 50 51 52 53 56 58 59 60 61 62 65 66 69 70 71 74 75 76 80 01L 01Lb 04D 04Db 05A 06A 06B 06C 06D 06G 06K 06P 06R 06Rd 06V 13A 13Ab 13Ax 13D 13Da 13G 27C 30D 30Df 44A 44Ab 44E 44Ei 46F 46Fc 49E 49Ea 56F 65A 65Am 65Am2 65Am3 65B 65Bk 65Bx 65D

Remarks: It may be attributed to the subspecies *mesopotamica*, described by Tutt (1909: 277) from Malatya.

10. *Polyommatus* (s.str. *Lysandra*) *bellargus* (Rottemburg, 1775)

Range in Turkey as codes: 01 02 03 04 05 06 07 08 11 12 13 14 15 16 18 19 20 21 23 24 25 26 27 28 29 30 32 33 34 36 37 38 39
41 42 43 44 46 49 50 51 52 53 55 56 58 60 61 62 65 66 68 69 70 71 72 73 74 75 76 78 80 04D 04Db 05A 06B 06G 06H 06K 06N 06P
06R 06Rd 06V 06Z 13C 13Cd 13D 13Da 13E 13Ea 13F 14I 14Ib 21K 21N 21Nb 21O 25F 25Fa 25Fb 25Fc 30B 30Br 30D 30Df 33K 33O
33R 33Rd 36F 36Fb 38H 38Hc 44A 44Ab 44E **44Ei** 44O 44Oc 46F 46Fc 46Fd 49F 49Fb 49Ff 56F 65A 65Ai 65Ao 65Am 65Am4 65B
65Bk 65Bx 65D 65Di 65Dh 65Dk 65Dr 65Drb 65Dq 65F 65Fe 65Fg 65Fh 65Fj 65Fi 65Fm 65Fp 65Fz 65Fu 65Fu 65Fx 65F3 65G 65Gd
65Ge 65H 65Ha 65K 65Ka 65Kl 65Z 65K0 65L 65Le 65N 65Np 65Nm 66A 73A 75F 75Fi 76A 76Ac 76C 76D 76Dd

11. *Polyommatus* (s.str. (*Meleageria*)) *daphnis* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 01 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 20 21 23 24 25 26 29 30 31 32 33 34 35 36 38 39 40 42 43 44 46 48 49 50 51 53 56 58 60 62 65 66 68 69 70 71 73 74 75 76 78 04D 04Db 05A 06B 06C 06D 06E 06K 06N 06R 06Rd 06V 06Z 13A 13Ab 13Ax 13F 13G 13Gv 13Gw 14I 14Ib 21K 24A 24Ea 30Ba 30Bc 30Bj 30Bd 30Bh 30Bf 30Br 30C 30D 30Da 30Db 30Df 30Dt 31M 33R 33Rd 34C 36F 36W 44E **44Ei** 44F 44Fb 46F 46L 49E 49Ea 56F 58G 58Gj 58Gi 58Kc 58R 58Rb 65A 65Am 65Am2 65Ac 65Ac2 65B 65Bk 65Bx 65D 65Dc 65Dc 65Dc1 65Df 65Do 65Dp 65K 65Kb 65G 65Gd 65Ge 65Gm 65Gn 65Gs 65Go 65Gp 65F 65Fb 65Fc 65Fc2 65Fg 65Fh 65Fh 65Fq 65Fj 65Fi 65Fp 65Ft 65Fü 65Fu 65Ff 65Fz 65K 65Kc 65Ké 65Kl 65Z 65Km 65Kö 65Kü 65Kz 65Kg 65Kw 65L 65Le 65N 65Np 65Np5 65Nr2 65Nr4 65Nm 75F 76C 76D 76Da

Remarks: This species was recorded by the authors from this place in summer in the past.

12. *Polyommatus* (s.str.) *icarus* (Rottemburg, 1775)

Range in Turkey as codes: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 75 76 78 80 81
01A 01C 01H 01G 01F 01K 04D 04Db 05A 06A 06B 06C 06D 06E 06G 06H 06K 06N 06P 06R 06V 06Z 12A 12Ai 13A 13Ab 13Ad 13Af
13Ai 13Ax 13B 13Ba 13Bg 13D 13Da 13E 13F 13G 13Ga 13Gc 13Gv 13Gü 13Gy 13Gw 14I 14Ib 18F 21L 21Le 21N 21Nb 21O 27C 27Cb 27D
27Db 27Dd 30B 30Bb 30Bk 30C 30D 30Df 31A 31Aa 31B 31E 31F 31L 31La 31K 31Ka 33A 33C 33K 33O 33R 33Rb 33Rd 36F 36Fb 38H
38Hc 39C 44E 44Ei 44L 44Lc 44O 44Oc 45L 45La 46G 46Gf 46E 46Eb 46F 48A 48Aa 48Ad 48D 48F 48L 49A 49Ae 49Ed 49F 49Fb
49Ff 56F 56Fc 56Fi 58G 58Gj 58Gi 58Gk 58Rb 63B 63Ba 63D 63E 65A 65Ai 65Ag 65As 65Au 65Am2 65Ac 65Ac2 65B 65Bk 65Bx
65D 65Dd 65Dda 65Dj 65Dk 65Dr 65Drb 65Dm 65Do 65Dn 65E 65Ea 65Eb 65F 65Fç 65Fg 65Fe 65Fh 65Fj 65Fl 65Fm 65Fq 65Fr 65Fü
65Fu 65Fx 65Fi 65Fw 65Fz 65G 65Ga 65Gb 65Ge 65Gd 65Gm 65Gn 65H 65Ha 65K 65Ka 65Kb 65Kc 65Kg 65Kl 65Z 65Ks 65Kş 65Kö
65Ku 65Ky 65Ky1 65L 65Le 65M 65Mc 65Md 65N 65Nc 65Np 65Np2 65Np4 65Np7 65Nr3 65Nş 65Nm 66A 72E 72Eb 72F 73A 73Ad
73Ad2 73D 73Db 73Df 73E 73Eb 73H 75F 75Fi 76A 76Ac 76Ac 76B 76Ba 76Bf 76Bh 76C 76D 76Da 76Dg 76E 76Ea 78D 78Da 80B 80Bd
80C 80E

Pieridae

13. *Aporia (s.str.) crataegi* (Linnaeus, 1758)

Range in Turkey as codes: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34
35 36 37 38 39 40 41 42 43 44 46 47 48 49 50 51 53 54 55 56 58 60 61 62 63 65 66 69 70 71 72 73 74 75 76 78 80 81 04D 04Db 05A 06A
06B 06C 06G 06K 06P 06R 06Rd 06V 07A 07Ac 12A 12Ab 13A 13Ac 13Af 13Ax 13C 13Cd 13E 13Ea 13F 13G 13Ga 13Gb 13Gc 13Gv 13Gü
13Gy 13Gw 21N 21Nb 21O 23E 23I 23la 23Ib 25F 25Fa 25Fb 25Fc 27C 27Cb 29A 29Ac 30B 30Bc 30Bx 30Bk 30Bo 30C 30Cd 30C 30Df
30Dt 31A 31E 31F 31Fb 31L 33A 33R 33Rb 36D 36Db 38H 38Hc 44A 44Aa 44E 44Ei 44L 44Lc 47F 49E 49Ea 49F 49Fd 56F 56Fc 56Fn
65A 65Ai 65Am 65Am2 65D 65Dc 65Dd 65DdA 65Do 65Dn 65Dt 65Dn 65Di 65Dlc 65Dq 65F 65Fb 65Fd 65Fh 65Fi 65Fz 65K 65Kl 65Z
66A 72E 72Eb 72Eh 72Ei 73A 73Ac 73Ad 73F 75F 75Fc 76C 78D 78Da

14. *Colias (Eriocolias) crocea* (Fourcroy, 1785)

Range in Turkey as codes: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 68 69 70 71 72 73 74 75 76 77 78 79 80
81 04D 04Db 05A 06B 06C 06D 06G 06H 06K 06N 06P 06R 06Rb 06Rd 06V 06Z 12A 12Ab 12Ai 12E 12Eb 13A 13Ab 13Ac 13Ac1 13Ac2
13Ae 13Af 13Ag 13Ah 13Ai 13Ax 13B 13Ba 13Bg 13C 13Cd 13D 13Da 13E 13Ea 13F 13G 13Ga 13Gö 13Gğ 13Gk 13Gs 13Gü 13Gv 13Gy 13Gw
13Gz 21L 21Le 21Ld 21La 21N 21Nb 21Nh 21O 21S 23Ib 23E 23M 25F 25Fa 25Fb 25Fc 27C 27Cb 27D 27Db 30B 30Bb 30Bk 30Br 30Bt1
30D 30Df 31A 31Aa 31F 31Fb 31K 31Ka 31L 31La 33A 33C 33K 33O 33R 33Rb 33Rg 35T 35TC 36D 36Db 36F 36Fb 38H 38He 39C
40A 44Aa 44Ab 44E 44Ei 44F 44Fb 44L 44Lc 45L 45La 46F 46Fc 46Fe 47E 47F 48A 48Aa 48Ak 48F 49E 49Ea 49F 49Fb 49Fb 49Ff 49Ff
56D 56De 56Dh 56Dğ 56F 58G 58Ga 58Gd 58Gi 58Gk 58R 58Rb 65B 63Ba 63D 63E 65A 65Ac 65Ac2 65Ai 65Ag 65Am 65Am1 65Am3
65As 65At 65Aç 65Au 65B 65Be 65Bi 65Bk 65Bn 65Bn1 65Bo 65Bx 65C 65D 65Da 65De 65De 65Dc1 65Dd 65Dda 65Df 65Dk 65Di 65Dlc
65Dn 65Do 65Dr 65Drb 65Dt 65Dv 65E 65Eb 65Ec 65Ec 65F 65Fb 65Fc 65Fd 65Fe 65Fg 65Fh 65Fi 65Fj 65Fm 65Ft 65Fx 65Fy
65Fw 65Fz 65G 65Ga 65Gf 65Gy 65Gg 65Gi 65Gl 65Gn 65Go 65Gs 65I 65K 65Kl 65Ka 65Z 65Ks 65Ku 65Kz 65Kg 65Kh 65Ky 65Ky1 65L
65Le 65M 65Mb 65Mc 65Md 65N 65Nb 65Nc 65Ne 65Nk 65Np 65Np1 65NdP5 65Np7 65Nr6 65Nr7 65Ns 65Ns1 65Nj 65Nm

15. *Pontia edusa* (Fabricius, 1777)

Range in Turkey as codes: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
34 35 36 38 39 40 41 42 43 44 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 67 68 69 70 71 73 74 75 76 77 78 79 80 81 04D
04Db 05A 06B 06D 06H 06K 06N 06P 06R 06Rd 06V 06Z 13A 13Ab 13Ac 13Ac2 13Ac3 13Ae 13Af 13Ag 13Ah 13Ax 13B 13Bg 13C 13Cd
13F 13F33 13G 13Gö 13Gv 13Gw 18F 21A 21Nb 21O 23C 23C2 23D 23Dc 23L 23G 25F 25Fa 25Fb 25Fc 27C 27Cb 27D 27Dd 27Dd
30B 30Bk 30Bb 30Br 30Bt1 30Bt 30Df 30Dt 30Du 31A 31Aa 31B 31C 31D 33A 33C 33L 33O 33R 33Rb 33Rc 33Rd 36F 36Fb 39C 44E **44Ei**
44F 44Fb 44L 44Lb 44Lc 44Lc 46D 46Da 46F 46G 46Gg 47F 48A 48Aa 48Ab 48Aa 48F 49E 49Ea 49F 49Fb 56F 58G 58Ga 58Gd 58Gg
58Gi 58H 58Hb 63B 63Ba 63D 63E 65A 65Aa 65Au 65B 65Bk 65Bb 65Bn1 65Bo 65Bx 65D 65De 65Dd 65Da 65Df 65Dl 65Dc 65Dg 65Do
65Dp 65Dq 65Dr 65Drb 65E 65Eb 65Ec 65Ec 65F 65Fb 65Fc 65Fe 65Fh 65Fg 65Fn 65Fp 65Fr 65Ft 65Fu 65Fv 65Fw 65Fz 65F3 65G

65Gf 65Gy 65Gm 65Gn 65Go 65Gp 65Gs 65K 65Ka 65Kb 65Kg 65Kç 65Kl 65Z 65Ks 65Kp 65Ku 65Kw 65Ky1 65M 65Mb 65Mc 65Md 65N 65Nk 65No 65Np 65Np1 65Nş 65Nm 66A 73A 73Ad 73D 73Df 73H 75F 75Fc 76A 76Ac 76B 76Ba 76Bb 76C 76D 76Da 76Db 76E 76Ea 78D 78Da 80B 80Bc

16. *Zegris eupheme* (Esper, [1804])

Range in Turkey as codes: 01 04 05 06 07 11 18 24 25 30 31 32 33 36 38 42 44 46 50 51 58 60 65 71 73 76 04D 04Db 05A 06A 06B 06K 06R 06Rd 06Z 07A 07Ad 30B 30Bc 30Bx 30Be 30Bg 30D 30Dt 31M 33P 36D 36Db 36Df 36F 36Fb 38H 42B 42R 44E 44Ei 44L 58C 58G 58Ga 58Gf 65A 65Am 65Am4 65At 65At2 65B 65Bn 65Bn1 65D 65Dc 65Dç 65Dd 65Dda 65Df 65Dj 65Dk 65Dn 65Dr 65Drb 65E 65Eb 65Eç 65F 65Fç 65Fe 65Ff 65Fm 65Fz 65K 65Ka 65Kb 65Z 65Ks 65Kz 65Kg 65Ky 65Ky1 65M 65Mc 65Md 73C 73Cd 76A 76Ac 76B 76Bj 76C 76D 76Dd

Moths

Totally 113 taxa are listed below alphabetically under their families. Among them 48 species are new to the fauna of Malatya Province.

Alucitidae

17. *Alucita* sp.

Material: 1 ex. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Arctiidae

18. *Arctia (Eucharia) festiva* (Hufnagel, 1766)

Range in Turkey as codes: 05 06 12 13 14 16 17 24 25 27 32 36 38 40 42 44 47 49 56 58 60 63 64 65 71 75 05A 06K 06Kc 06R 06Ra 12A 12Ab 12Af 13A 13Ab 13Ax 14E 16A 25F 25T 27B 27D 36F 38F 40C 42B 44A 44E 44Ei 44L 44Lc 47L 47La 47F 49F 49Fb 56F 56Fb 56Fh 58G 60C 63B 63Ba 63E 64A 65A 65An 65Am 65Am1 65E 65Eb 65Eç 65K 65Ky 65Ky1 65Kz 65Kg 65N 65Np 65Nm 71C 75E

Material studied: 4♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

19. *Arctia (Epicalia) villica* (Linnaeus, 1758)

Range in Turkey as codes: 01 03 04 05 06 07 10 13 14 15 16 17 19 21 22 23 26 27 29 31 32 33 34 36 37 39 42 44 46 48 55 56 60 61 62 64 66 71 75 80 03C 03Ca 05A 05G 06B 06R 06Ra 06Rk 07B 07C 10D 10N 13C 13F 14I 14Ib 15C 16A 17E 17H 17M 19G 21N 21Nb 23M 26G 27D 31K 31Ka3 31Ka5 31Ka7 31M 33A 33Aa 33E 33P 34B 34S 36D 36De 37P 39H 42B 42D 43M 44E 44Ei 48L 55F 56F 56Fz 60C 61K 61Ka 62E 64B 73C 73A 73Ab 73Cd 75F 75Fe 80B 80Bb

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Cimeliidae

20. *Axia (Epicimelia) theresiae* (Korb, 1900)

Range in Turkey as codes: 06 13 24 29 30 36 42 44 49 50 58 65 70 73 76 06A 06Aa 06C 06Cb 06N 13G 13Gt 13Gw 13Gs 29F 30B 30Ba 30Be 30Bh 30Bj 30Bj1 30C 30Cb 30D 30Da 30Dt 36D 36Db 42R 44E 44Ei 44F 44Fa 49F 49Fb 58G 65A 65Ai 65Am1 65Am4 65An 65D 65Dl 65Ds 65Dt 65F 65Fe 65Fp 65Fz 65Fm 70D 73C 73Cd 76A

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Remarks: Amsel (1979) described a ssp. *malatyiensis* of this species from Reşadiye geçidi 1500m of this province.

Coleophoridae

21. *Coleophora* sp.1

Material: 1♂ (GP2839). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

The species looks like to *onobrychiella* Z., 1849 externally (cf. Lepiforum), and also the male genitalia, with some doubts.

22. *Coleophora* sp.2

Material: 1♂ (GP2838). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

The species looks like to *vibicigerella/caelebipennella* Z., externally (cf. Lepiforum), and also the male genitalia, but we have some hesitations.

23. *Coleophora* sp.3

Material: 1♂ (GP2840). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

The species looks like *leucopennella*-gr (e.g., *albella* Thnb.) (cf. Lepiforum), with some differences in the male genitalia. Therefore, it needs confirmation.

24. *Coleophora* sp.4

Material: 1♀ (GP2841). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Externally, the species looks like *brunneosignata/turbatella* Toll, illustrated in the Lepiforum. The female genitalia resembles to *brunneosignata* (Toll,1944). However, it needs confirmation.

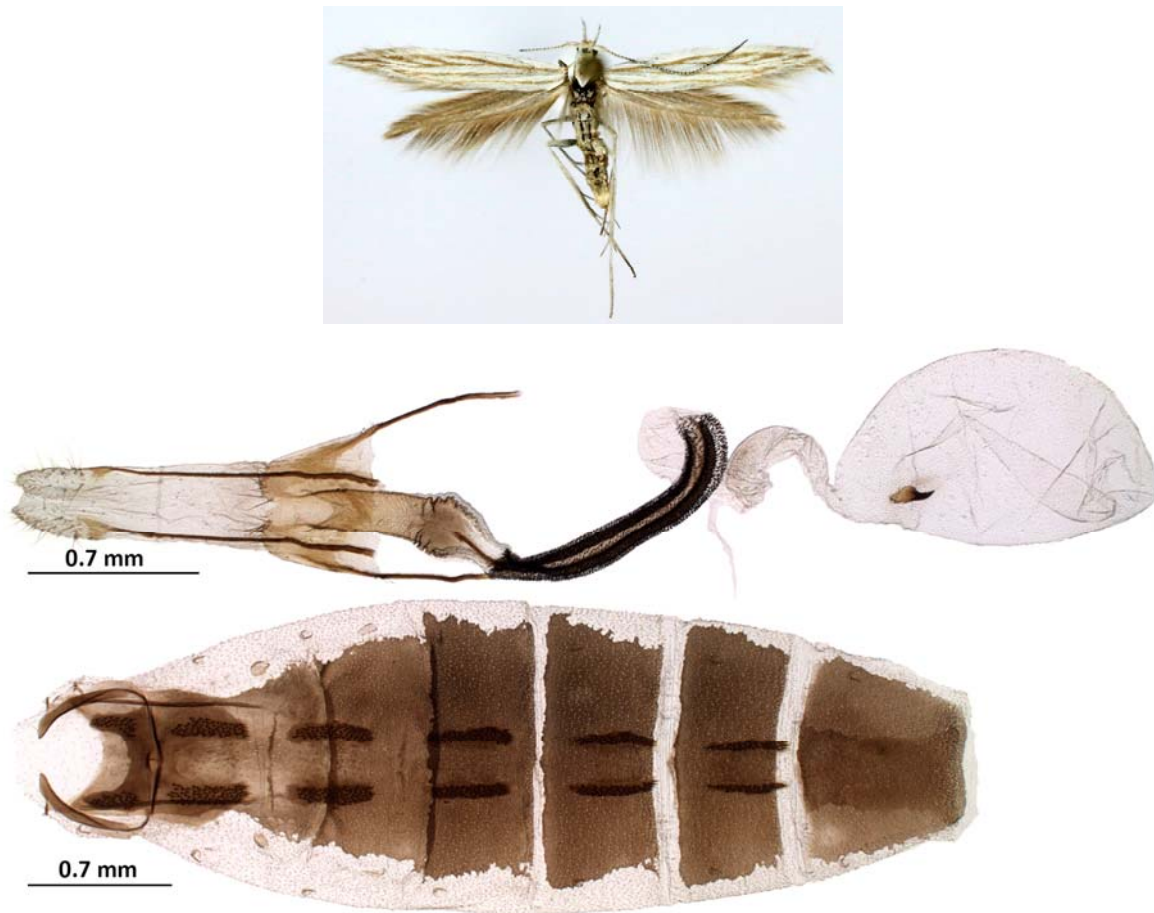
25. *Coleophora* aff. *tauricella* Staudinger,1880 (Figs. 5-7)

Range in Turkey as codes: 06 33 41 42 44? 47 06R 41A 44E? 44Ei?

Material: 1♀ (GP2842). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

The genitalia of a single female and upperside of the wings look like very much to *Coleophora tauricella* Stgr., illustrated in the web site of the Coleophoridae (Richter,2018). However, it needs confirmation.

Apparently new to Malatya Province!



Figs. 5-7 – *Coleophora* aff. *tauricella*. Upperside of female (above), female genitalia and abdominal skin. GP 2842) (below), Malatya Pr. Beybağı, M. Kemal (Cesa)

Cossidae**26. *Dyspessa* sp.**

Material: 5♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

27. *Dyspessa ulula* (Borkhausen, 1790)

Range in Turkey as codes: 05 06 07 13 14 16 17 20 21 26 33 36 42 44 45 46 48 58 60 65 66 05A 06R 06Rb 06Rd 13A 13Ab 13Ax 16A 42B 44E 44Ei 48F 58N 65A 65Ai 65D 65Dg 65Dh 65G 65Gf 65Gy 65N 65Np2 65Nr2 65Nm

Material studied: 5♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

Ctenuchidae**28. *Amata transcaspica* Obratzsov, 1941**

Range in Turkey as codes: 12 21 25 44 58 73 21L 21Ld 21N 21Nb 21Nh 44A 44Ab 44E 44Ei 44F 58R 58Rc 73A

Remarks: Diurnal and vernal. Rare in the area.

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Drepanidae**29. *Cilix asiatica* A. Bang-Haas, 1907**

Range in Turkey as codes: 05 06 07 10 12 13 17 21 30 31 33 36 42 44 45 46 47 49 50 56 58 60 65 71 73 05A 06R 06Rb 07A 07C 13F 13F7 13F7i 17M 21N 21Nh 30B 30Bh 30D 30Df 31K 31Ka 36D 36Db 44E 44Ei 49E 49Ea 56F 58N 60G 65A 65Ai 65D 65Ds 65F 65Fp 65Fz 65N 65Np6 65Nm 73C 73Cd

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

Epermeniidae**30. *Epermenia* (s.str.) *ochreomaculella* (Millière, 1854) (Figs. 8-10)**

Range in Turkey as codes: 23 29 33 44 44E 44Ei

Material studied: 5♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa). Prep. no: GP2827♂

New to Malatya Province!

Remarks: [1] Cornutus in the aedeagus is remarkably larger than the nominate subspecies. Therefore, the present record is attributed to *asiatica* Gaedike, 1979, which is considered here as a valid name of the subspecies. [2] Morphologically, a pair of abdominal pouch – a scent organ – is characteristic for the species of *Epermeniini* (Gaedike, 1966). This organ of *Epermenia ochreomaculella* is apparently illustrated here for the first time (Fig. 10)

Ethmiidae**31. *Ethmia treitschkeella* (Staudinger, 1879)**

Range in Turkey as codes: 05 06 42 44 05A 44E 44Ei

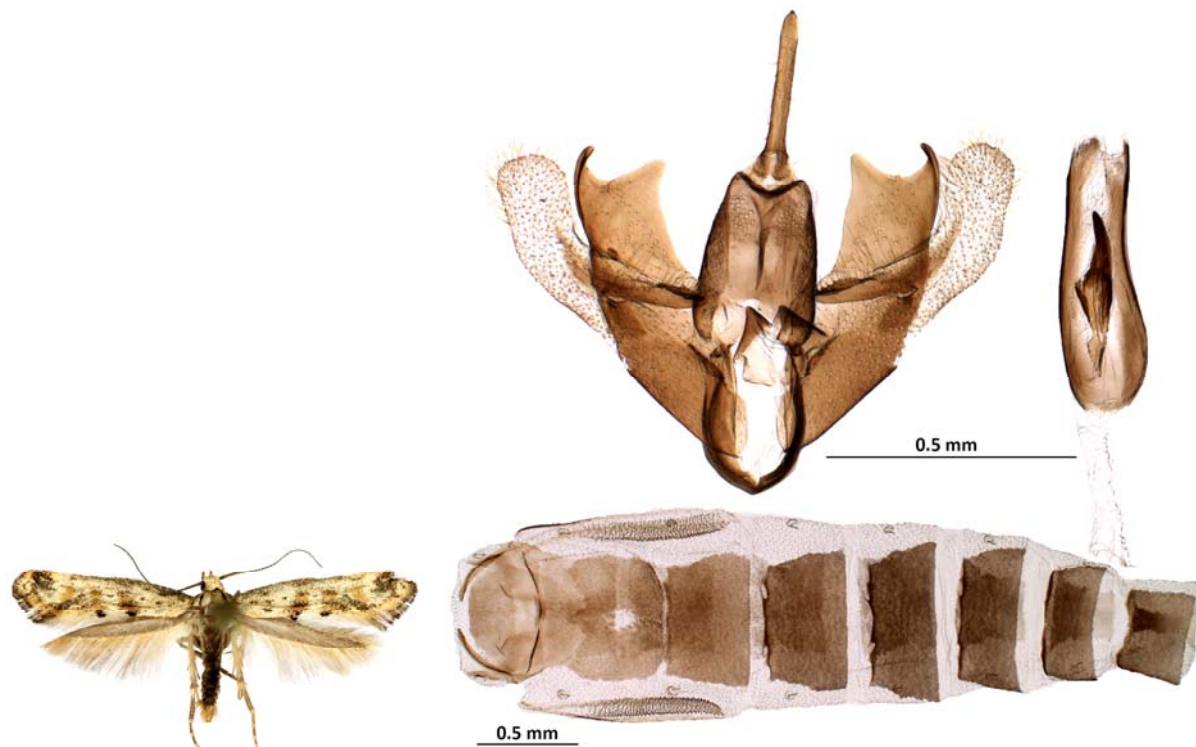
Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

Gelechiidae**32. *Agnippe pseudolella* (Christoph, 1888)**

Range in Turkey as codes: 42 44 50 65 44E 44Eh 44Ei 50G 50Gc 65D 65Df

Material studied: 5♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).
New to Malatya Province!



Figs. 8-10 – *Epermenia ochreomaculella* ssp. *asiatica*. Upperside of male (left). Male genitalia, removed aedeagus with a large cornutus, and abdominal skin, GP2827♂, with a pair of elongated abdominal pouch, located on the sides (right). Malatya Pr., Darende, Beybağı 1200m (44Ei), M. Kemal (Cesa)

33. *Metzneria aprilella* (Herrich-Schäffer, [1854])

Range in Turkey as codes: 05 06 16 27 30 33 42 44 46 49 65 73 05A 16A 27D 27Da 27Db 30D 30Df 33A 33Ac 33Ak 44E 44Ei 49F 49Fb 65G 65Gf 65Gy 65L 65Le 65N 65Np 65Nm 73D 73Df 73Dfc

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).
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Geometridae

34. *Aplocera obsitaria* (Lederer, 1853)

Range in Turkey as codes: 04 05 21 25 30 42 44 46 47 58 62 65 76 05A 30D 30Df 42B 44E 44Eh 44Ei 46C 46G 46Gi 47D 58N 65A 65Ac 65Ac3 65Am 65Am4 65D 65Dd 65Dda 65F 65Fm 65Fp 65G 65Gf 65Gt 65Gy 65H 65N 65Np1 65Np2 65Nm

35. *Docirava musculata* (Staudinger, 1892)

Range in Turkey as codes: 05 23 25 28 30 33 38 44 46 51 62 65 71 05A 23D 23Dc 28N 30D 30Df 44E 44Ei 44L 44Lc 62H 65A 65Am 65Am4 71B 71Ba

36. *Dyscia* sp.

Material: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).
The specimen may belong to *innocentaria* Chr., however, a genitalic preparation is necessary.

37. *Eupithecia oblongata* (Thunberg, 1784)

Range in Turkey as codes: 01 05 06 14 16 17 34 42 44 46 52 55 56 58 65 71 01D 05A 06K 06Kc 13A 13Ac 13Ac2 13Ax 16A 34H 36D 36Db 42B 42J 42X 42Xa 44E 44Ei 52G 52Gb 55F 56F 56Fv 58N 65D 65Df 65Dg 65Dga 65F 65Fç 65Fz 65L 65Lb 65N 65Np1 65Np6 65Nm

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38. *Eupithecia schiefereri* Dietze, 1904

Range in Turkey as codes: 01 06 31 44 46 56 71 01D 01G 01H 06R 31M 44E 44Ei 56F
New to Malatya Province!

39. *Gnopharmia rubraria* Staudinger, 1892

Range in Turkey as codes: 06 07 27 30 33 42 44 46 47 50 56 63 65 68 70 71 80 06A 06Aa 27D 27Da 27Db 27Dd 30B 30Bd 30Bc1 30Bx 30D 30Df 33A 42O 44E 44Ei 46G 46L 50G 50Gb 50Gd 56C 56Cc 63E 65A 65Am 65Am1 70B 80B 80Ba
New to Malatya Province!

40. *Lithostege palaestinensis* Amsel, 1935

Range in Turkey as codes: 27 31 33 36 44 63 65 27D 27Db 31M 33F 36F 36Fb 44E 44Ei 63B 63Ba 63D 63E 65A 65Am 65Am1 65Am2
Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).
New to Malatya Province!

41. *Neognopharmia stevenaria* (Boisduval, 1840)

Range in Turkey as codes: 01 05 06 08 13 14 16 17 21 22 25 27 30 31 36 42 44 46 56 61 65 01B 01H 05A 08H 08Ha 13F 13F7 13F71 13G 13Gw 13Gs 13Gy 16A 21N 21Nc 25F 27D 27Db 30B 30Bd 30Bc1 30Bx 30D 30Dx 36D 36Db 42B 44E 44Ei 44I 44Ic 44O 46G 46Gf 56F 56Fn 61K 65A 65Ai 65D 65Df 65Dl 65Dlc 65F 65Fp 65Fz

42. *Rhodostrophia (Asiotrophia) auctata* (Staudinger, 1879)

Range in Turkey as codes: 01 05 06 12 13 24 25 29 38 42 43 44 46 49 50 51 56 57 58 61 62 65 69 70 71 76 01D 05A 06R 06Rd 12A 12Ab 13A 13Ab 13Ac 13Ac2 13Ax 25N 25Na 44E 44Eb 44Ei 44I 44Ic 44L 44Lc 46G 46Gi 50F 50Fb 51D 51Db 56F 56Fs 58N 61K 65A 65Ac 65Ac3 65An 65Am 65Am1 65Bx 65D 65Df 65F 65Fg 65F1 65Fq 65Fz 65G 65Gb 65Ge 65K 65Kl 65L 65Le 65N 65Np 65Np2 65Np4 65Np8 65Nr2 65Nr4 65Nm 76C
Material studied: 6♂6♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

43. *Rhodostrophia (Pydna) badiaria* (Freyer, [1841])

Range in Turkey as codes: 05 06 14 21 25 29 30 36 38 40 42 44 46 50 51 56 58 65 71 05A 06R 06Rb 14F 14Fb 14G 14Gc 21N 21Nh 36F 40E 40Ea 42B 44E 44Ei 46B 56F 56Fn 58N 58M 65D 65Dh 65Dr 65Drb 65Ds 65F 65Fw 65Fz 65G 65Gf 65Gt 65M 65Md 65N 65Np 65Np1 65Np2 65Nr7 65Nm 71C
Material studied: 6♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

44. *Rhodostrophia (s.str.) sieversi* (Christoph, 1882)

Range in Turkey as codes: 06 30 44 46 65 71 76 44E 44Ei 65D 65Dd 65Dda 65Dc 65Dg 65Ds 65F 65Fp 65Fz 65G 65Gf 65Gg 65Gy 65L 65Le 65N 65Nr3 65Nm 76D 76Dd
Material studied: 8♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

45. *Scopula beckeraria* (Lederer, 1853)

Range in Turkey as codes: 01 04 05 06 07 13 14 24 25 27 30 36 42 44 47 51 56 58 63 65 71 72 01H 05A 06K 06Kc 06R 06Rd 13A 13Ab 13Ax 42B 44E 44Ei 51B 51Bc 56F 58N 65D 65Df 65F 65Fp 65Fz 65G 65Gb 65Gf 65Gy 65L 65Le 65M 65Md 65N 65Np1 65Nm
New to Malatya Province!

46. *Scopula immistaria* (Herrich-Schäffer, [1852])

Range in Turkey as codes: 06 08 13 23 24 25 30 44 46 47 56 58 65 72 76 08H 13A 13Ab 13Ax 13B 13F 13F7 13F71 13G 13Gf 30D 30Df 44E 44Ei 46G 47D 56F 56F5 56Fg 56Fm 56Fq 56Fo 56Fs 56Fv 56Fw 56Fx 56F1 58N 65A 65Ai 65An 65Am 65Am1 65At 65At5 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65Dh 65F 65Fm 65Fz 65G 65Gf 65Gy 65H 65K 65Kb 65Kl 65Z 65N 65Np1 65Nr7 65Nm 72E 72Eh 76C
New to Malatya Province!

47. *Scopula marginepunctata* (Goeze, 1781)

Range in Turkey as codes: 01 05 06 13 14 16 17 21 22 24 30 33 34 35 38 39 42 44 46 52 56 58 59 60 61 65 71 76 80 81 01D 01G 01H 05A 05G 06D 13B 13Ba 16A 21N 21Nh 30D 30Df 33A 33Ae 42B 44E 44Ei 52G 52Gb 56F 56Fg 58N 60H 60Hb 61K 61Ka 65A 65Ai 65Am 65Am1 65An 65Am4 65D 65F 65Fm 65Fr 65Fp 65Fz 65L 65Lb 65Le 65N 65Nc 65Np 65Np1 65Nm
Prep. no: GP1045♂, GP2366♂.
Material studied: 16♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).
New to Malatya Province!

48. *Scopula ornata* (Scopoli, 1763)

Range in Turkey as codes: 01 05 06 07 09 11 13 14 16 17 18 22 29 30 34 39 44 52 59 61 65 76 77 81 01M 05A 06R 06Rd 13F 13F38 13F7 13F71 13G 13Gs 13Gw 16A 18F 30D 30Df 44E 44Ei 52A 52G 52Gb 61K 65A 65Ai 65Am 65Am1 65Am4 65Au 65At 65At5 65D 65Df 65F 65Fd 65Fr 65G 65Go 65Gs 65N 65Np1 65Nm 76D

New to Malatya Province!

Gracillariidae**49. *Aspilapteryx (s.str.) tringipennella* (Zeller, 1839)**

Range in Turkey as codes: 16 44 65 16A 44E 44Ei 65L 65Le

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

Noctuidae**50. *Agrotis (s.str.) desertorum* Boisduval, 1840**

Range in Turkey as codes: 04 06 13 18 24 25 30 33 36 42 44 46 50 51 58 60 62 65 68 69 70 71 04E 06B 06O 13A 13Ab 13Ax 13G 13Gg 13Gü 13Gw 18F 24L 25A 25C 25Ca 25F 25N 25Na 25T 30B 30Bd 30Bx 36D 42R 42Rc 44E 44Ei 50G 50Ge 50Ge 50Gd 51B 58G 58Gh 58Gi 58N 58R 60C 62G 65Bx 65D 65Du 65F 65Fa 65G 65Ge 65K 65Kl 65Z 65N 65Np 65Nm 69A 70C 70Cb 68H

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51. *Agrotis (s.str.) segetum* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 01 05 06 07 11 13 14 15 16 18 21 24 25 27 30 31 32 33 35 36 37 38 42 44 46 49 50 51 56 57 58 60 62 63 65 67 71 73 80 01D 05A 06R 06Ra 06Rq 06Y 06Yb 07A 07C 11E 13A 13Ab 13Ax 13C 13Cf 13F 13F38 13G 13Gü 13Gy 13Gw 13Gs 15F 16A 18F 21N 21Nh 25D 27B 27D 27Db 27Dd 30D 30Db 30Df 30Du 30Dx 31K 31Ka 31Ka3 31L 31La 33A 33Aj 33E 33R 33Rb 35O 36D 36Db 36F 36Fb 38C 38Cb 44E 44Ei 44L 44Lc 49F 49Fb 50G 50Ga 50Gd 51B 51Ba 56F 56Fa 58G 58Gh 62G 62Gb 63D 63E

Material studied: 1♂1♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

52. *Antarchaea numisma* (Hübner, [1803])

Range in Turkey as codes: 01 04 05 06 07 18 19 33 38 42 44 50 70 05A 06C 06Cb 33G 44E 44Ei

Material studied: 3♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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53. *Apamea (s.str.) leucodon* (Eversmann, 1837)

Range in Turkey as codes: 04 06 13 25 33 36 42 44 46 50 51 58 60 65 04D 04E 06K 06Kc 13A 13Ab 13Ax 36D 36Db 44E 44Ei 44L 60C 65Bx 65D 65Dg 65F 65Fm 65G 65Ge 65Gf 65Gy 65L 65Lb 65Le 65N 65Nc 65Np 65Np1 65Np2 65Np5 65Nm

54. *Apaustis rupicola* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 05 06 07 44 45 49 50 60 70 05A 06E 06Ea 44E 44Ei 60C

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

This diurnal species is new to Malatya Province!

55. *Calymma communimacula* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 06 17 30 32 42 44 46 47 50 51 56 58 65 06K 06Kc 06R 06Re 30B 30Bd 30Bc1 30Bx 30Bf 30Bj1 30D 30Df 44E 44Ei 44L 44Lc 47D 56F 56Fa 65D 65Dlc 65K 65Kb 65Z

56. *Chazaria incarnata* (Freyer, 1838)

Range in Turkey as codes: 01 05 06 07 13 18 20 21 23 24 25 33 34 36 38 39 42 44 45 46 50 51 58 63 65 71 01H 05A 06R 13A 13Ab 13Ax 21N 21Nb 21Nh 23I 36D 36Db 44E 44Ei 44L 44Lc 58N 65A 65Ai 65F 65Fa 65Fp 65I 65M 65Md

57. *Chloantha hypericii* (Fabricius, 1787)

Range in Turkey as codes: 01 04 05 06 07 08 12 13 14 15 16 17 18 24 25 28 30 31 32 33 35 36 42 44 46 47 50 51 56 58 60 61 62 65 69 73 01A 05A 06R 06Rb 13G 13Gg 13Gy 13Gü 13Gs 13Gw 14I 16A 30D 30Df 30Dx 31K 31Ka 31Ka7 42B 42D 44E 44Ei 44L 44Lc 47D 56A 56C 56Cc 56F 58N 65A 65Ac 65Ac3 65Ai 65Am 65Am1 65D 65Dg 65F 65Fd 65Fr 65Fm 65G 65Gf 65Gy 73A 73Ad 73Ad2

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

58. *Cleonymia (Serryvania) opposita* (Lederer, 1870)

Range in Turkey as codes: 01 05 06 18 21 24 25 27 30 32 33 36 42 44 46 47 49 50 51 56 58 60 62 63 65 73 05A 06R 06Rh 06Y 06Yb 18F 21L 21Lc 21N 21Nb 21Nc 21Nh 27D 27Da 30D 30Df 33G 36D 36Db 42B 44E 44Ei 47D 49F 49Fb 56F 56Fg 56Fç 56Fv 63B 63Ba 65D 65Dg 65Di 65F 65Fd 65Fg 65Fm 65Fr 65Fp 65Fz 65L 65Lb 65N 65Np 65Np2 65Nm 73E 73Eb

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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59. *Cornutiplusia circumflexa* (Linnaeus, 1767)

Range in Turkey as codes: 01 04 05 06 07 08 13 16 18 20 21 22 24 25 27 30 31 33 34 35 38 44 46 47 48 50 51 56 60 63 65 66 73 76 80 05A 13A 13Ab 13Ae 13Ax 13G 13Gü 13Gw 13Gz 16A 21N 21Nh 30D 30Df 44E 44Ei 47G 56F 63D 65A 65Ac 65Ac3 65Am 65Am2 65An 65Ai 65Bx 65D 65Dl 65Dlc 65Ds 65G 65Ge 65F 65Fd 65Fr 65Fu 65K 65Kp 65L 65Lb 65Le 65N 65Nc 65Nc4 65Nm 65Np 65O 73A 73Aç 73Al 76A 76Ac

New to Malatya Province!

60. *Cucullia* sp.

Material: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

61. *Dichagyris (s.str.) erubescens* (Staudinger, 1892)

Range in Turkey as codes: 01 06 07 24 25 27 30 33 42 44 46 47 50 51 56 58 63 65 06B 06R 06Ra 07K 27B 30B 30Bj1 30D 30Df 33O 44E 44Ei 47D 50G 50Gb 56F 56Fb 56Fv 56Fc 56Fs 56Fç 56Fv 58N 63K 65A 65Ai 65D 65Dh 65Fr 65Fp 65Fz 65G 65Gf 65Gy 65N 65Np 65Np1 65Np2 65Nm

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

62. *Drasteria cailino* (Lefèbvre, 1827)

Range in Turkey as codes: 01 03 04 05 06 08 13 14 18 21 24 25 29 30 33 42 44 45 46 47 50 51 56 58 60 62 65 66 69 73 05A 06R 06Rb 13A 13Ab 13Ax 13F 13F38 13F71 13G 13Gü 13Gw 21N 21Nb 21Nh 30D 30Df 30Dx 30Dp 42J 42X 42Xa 44E 44Ei 47D 56F 56Fi 58N 65A 65Ac 65Ac3 65Ai 65An 65Am 65Am1 65D 65Df 65Dj 65F 65Fa 65Fp 65Fz 65L 65Le 73D 73Df 73Dfc

Material studied: 5♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

63. *Dysgonia algira* (Linnaeus, 1767)

Range in Turkey as codes: 01 05 07 08 10 13 16 17 18 21 22 27 28 30 31 33 34 35 39 40 42 44 45 48 50 52 56 61 62 63 65 73 05A 07B 13F 13F38 16A 21N 21Nb 27D 27Da 27Db 30D 30Df 30Dt 31K 31Ka 31Ka3 33A 33Ac 39K 44E 44Ei 44I 44Ic 48D 50G 50Gd 56F 56Fv 56Fç 56Fa 56Fm 56Fc 61K 61Ka 63D 65A 65Am 65Am1 65D 65Ds 65Du 65Dv 73D 73Df 73Dfc

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

64. *Earias clorana* (Linnaeus, 1761)

Range in Turkey as codes: 01 05 06 10 12 13 14 17 18 24 29 42 44 50 56 58 62 65 66 67 69 75 05A 06A 06Aa 06R 12A 12Aa 13F 13F71 44E 44Ei 56F 56Fç 56Fq 56Fb 65A 65Ai 65F 65Fm 65Fp 65Fz 65Fr 65K 65Kl 65Z 65Kp 65L 65Le 65N 65Np 65Nm 75F 75Fd

Material studied: 4♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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65. *Eublemma (albida-gr.) gratissimum* (Staudinger, 1892)

Range in Turkey as codes: 01 05 07 08 13 17 23 24 25 30 31 40 44 46 47 50 56 58 62 65 73 76 01K 05A 08H 08Ha 13A 13Ab 13Ac 13Ax 13B 13F 13F7 13F71 13G 13Gg 17C 25F 30B 30Bd 30Bc1 30Bx 31K 31Ka 31Ka5 31M 44E 44Eh 44Ei 44I 44Ic 44L 44Lc 47D 56F 56Fa 56Fm 56Fi 56Fc 56Fs 65B 65Bo 65Bx 65D 65Df 65F 65Fm 65Fz 65K 65Kb 65Kd 65Kg 65L 65Le 65N 65Nc 65Nc4 65Np2 65Np5 65Nm 73A 73Ad 73Ad2 76C

66. *Eublemma (candidana-gr.) minutatum* (Fabricius, 1794)

Range in Turkey as codes: 08 13 18 24 25 30 36 42 44 46 47 50 56 60 65 76 13A 13Ab 13Ac 13Ac1 13Ax 13F 13F7 13F71 30D 30Df 36D 36Db 44E 44Ei 44L 44Lc 47D 56F 56Fc 56Fs 56Fq 65A 65Am 65Am1 65D 65Df 65Dh 65Fz 65G 65Gb 65Gf 65Gy 65N 65Nb 65Np1 65Np6 65Nm 76B 76Bb 76C

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

67. *Eublemma (parva-gr.) parvum* (Hübner,[1808])

Range in Turkey as codes: 01 05 07 08 13 16 25 30 31 33 44 46 47 48 50 56 58 63 65 80 05A 07C 13A 13Ab 13Ax 16A 30D 30Df 31K 31Ka 44E 44Ei 47D 48L 56E 56Eh 56F 56Fm 56Fö 58N 63E 63L 65A 65Am 65Am1 65D 65Df 65Dg 65F 65Fp 65Fz 65G 65Gb 65L 65Le 65N 65Nc 65Nc4

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68. *Eublemma (rosina-gr.) parallelum* (Freyer,1842)

Range in Turkey as codes: 01 05 08 13 24 25 29 30 36 38 44 46 50 51 58 60 65 66 73 05A 13G 13Gü 13Gw 24B 24Bc 25A 29F 30D 30Df 44E 44Ei 46G 46Gi 58N 60C 65Bx 65G 65Ge 65F 65Fw 65Fz 73C 73Cd

Material studied: 4♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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69. *Euchalcia taurica* (Osthelder,1933)

Range in Turkey as codes: 04 05 06 12 18 25 30 36 42 44 46 50 51 58 60 65 66 04D 04Da 06B 06Bb 06R 25T 30D 30Da 44E 44Ei 65Bx 65F 65Fa 65G 65Ge

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

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70. *Eulocastra diaphora* (Staudinger,1879)

Range in Turkey as codes: 05 06 08 09 13 18 24 25 30 33 36 42 44 47 50 51 58 65 69 70 73 76 05A 30B 30Be 30Bi 30Bj 30D 30Df 36D 36Db 44E 44Eh 44Ei 47D 58G 58N 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz 65L 65Lb 65N 65Np2 65Np5 65Nm 70C 70Cf 73C 73Cd 76D 76Dd

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

71. *Grammodes stolidi* (Fabricius,1775)

Range in Turkey as codes: 01 05 06 07 08 09 16 18 31 33 35 36 39 44 56 62 63 65 73 76 05A 07B 09K 09Ka 16A 31K 31Ka 35U 36D 36Db 44E 44Ei 44L 44Lc 44L 44Lc 56F 56Fo 56Fa 56Fç 56Fö 56Fv 56Fj 56Fm 62H 63D 65D 65Dv 65F 65Fa 73D 73Df 76B 76Bb

72. *Hadena (Anepia) sancta* (Staudinger,1859)

Range in Turkey as codes: 01 31 33 44 46 56 44E 44Ei 56F 56F1

73. *Hadena (Anepia) syriaca* (Osthelder,1933)

Range in Turkey as codes: 01 02 04 05 06 08 14 18 24 25 27 30 32 36 42 44 46 47 50 51 58 60 65 66 73 04E 05A 06R 06Re 25B 25C 25Ca 25T 30B 30Bd 30Bc1 30Bx 30Bh 30Bg 30Bj1 36Da 44E 44Ei 58N 58G 60C 65Bx 65F 65Fm 65Fp 65Fz 65G 65Ge 65K 65Kl 65Z 73A 73C 73Ab

74. *Hadena (s.str.) magnolii* (Boisduval,1828)

Range in Turkey as codes: 01 04 05 06 09 13 14 18 21 24 25 29 30 32 33 36 42 44 46 47 49 50 51 56 58 65 66 05A 06R 06Rb 13A 13Ab 13Ax 13G 13Gü 13Gs 13Gw 21L 21Lc 30D 30Df 42R 44E 44Ei 44L 44Lc 47D 56F 56F1 56Fs 58R 65A 65Ai 65Am 65Am1 65Am4 65An 65At 65At5 65D 65Df 65Dg 65Du 65F 65Fr 65Fp 65Fz 65Fm 65K 65L 65Le 65N 65Np 65Np1 65Nm

Material studied: 8♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

75. *Hadula (Calocestra) dianthi* (Tauscher,1809)

Range in Turkey as codes: 01 04 05 06 18 25 42 44 49 50 51 58 66 69 05A 25B 25F 25N 25Na 42B 42J 44E 44Ei 49F 58N

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76. *Hadula (Calocestra) mendica* (Staudinger,[1895])

Range in Turkey as codes: 01 02 07 13 21 23 24 30 32 33 36 42 44 46 47 49 51 56 58 60 63 65 70 73 01K 21L 21Lc 30B 30Be 30Bh 36D 36Dd 44E 44Ei 47D 47Db 56F 56Fs 65A 65Am 65Am4 65D 65F 65Fr 65G 65Gf 65Gy 70C 70Ce 73C 73Cd 73Cd

Material studied: 4♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

77. *Hadula (Calocestra) trifolii* (Hufnagel,1766)

Range in Turkey as codes: 04 05 06 07 08 10 13 16 17 18 23 25 31 32 36 39 37 39 42 44 45 46 49 50 51 53 56 57 58 60 62 63 65 05A 06R 06Rb 10K 10Ka 13A 13Ab 13Ax 16A 44E 44Ei 56F 56Fa 65Bx 65F 65G 65Ge 65L 65Lb

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

78. *Hecatera spinaciae* (Vieweg, 1790)

Range in Turkey as codes: 01 04 05 06 07 13 14 16 18 20 21 24 25 30 31 32 33 36 44 46 50 51 56 58 60 62 63 65 66 76 05A 06Z 13B 13C 13Cy 16A 21L 21Lc 25F 30D 30Df 31K 31Ka 31Ka5 33A 33Ac 44E 44Ei 44I 44Ic 56F 56Fa 56Fb 58N 65A 65Ac 65Ac3 65Bx 65F 65Fa 65Fr 65Fp 65Fz 65G 65Ge 65K 65N 65Nc 65Kp 65L 65Lb 65N 65Np6 65Nm 76C

79. *Heliothis nubigera* Herrich-Schäffer, [1851]

Range in Turkey as codes: 01 04 07 10 13 18 20 25 31 33 35 42 44 46 47 50 51 56 58 65 76 07C 13A 13Ab 13Ax 31K 31Ka 31Ka3 31Ka7 44E 44Ei 44L 44Lc 56F 56F1 56Fb 56Fm 65A 65Am 65Am1 65Bx 65G 65Ge 65N 65Np 65Np1 65Nm 76C

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

80. *Heliothis peltigera* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 01 05 06 07 08 09 13 16 18 20 21 24 25 27 30 31 33 35 36 38 42 44 45 46 50 51 56 58 63 65 66 73 75 80 05A 07B 07Bb 09K 09Ka 13A 13Ab 13Ax 13G 13Gö 13Gg 13Gg 16A 18F 21N 21Nb 21Nc 21Nh 27D 27Db 30D 30Df 31K 31Ka 31Ka3 31Ka7 33A 33Ac 33Ad 33E 36F 36Fb 44E 44Ei 44L 44Lc 56F 56F1 56Fb 56Fv 56Ff 56Fg 60C 63E 65F 65Fr 65D 65Dh 65Ai 65At 65At5 65D 65Dda 65Df 65Dl 65Du 65E 65Eb 65Ec 65Ec 65Ed 65F 65Fa 65Fd 65Fg 65Fp 65Fr 65Fz 65G 65Ge 65K 65Kb 65Kl 65N 65Np 65Nr4 65Nr7 65Nm 73A 73Aa 73D 73Da 73Df 73Dfc 75F 75Fa

Material studied: 2♂2♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

81. *Metalopha (Antholopha) gloriosa* (Staudinger, 1892) (Figs. 11, 12)

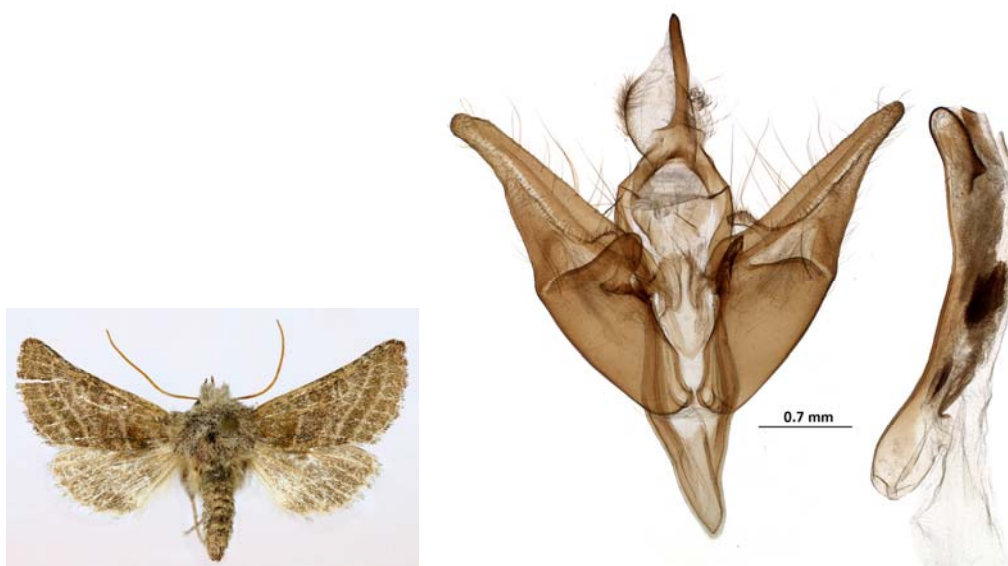
Range in Turkey as codes: 01 06 21 23 25 27 31 33 36 42 44 46 47 56 58 60 62 63 64 65 01K 06C 06Cb 06Y 21K 21N 21Nh 23I 25K 33G 36D 42B 44E 44Ei 44L 44Lc 47D 56F 56F1 56Fv 56Fç 56Fb 56Fg 60C 63E 65F 65Fr 65D 65Dh

Material studied: 1♂ (GP2782). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

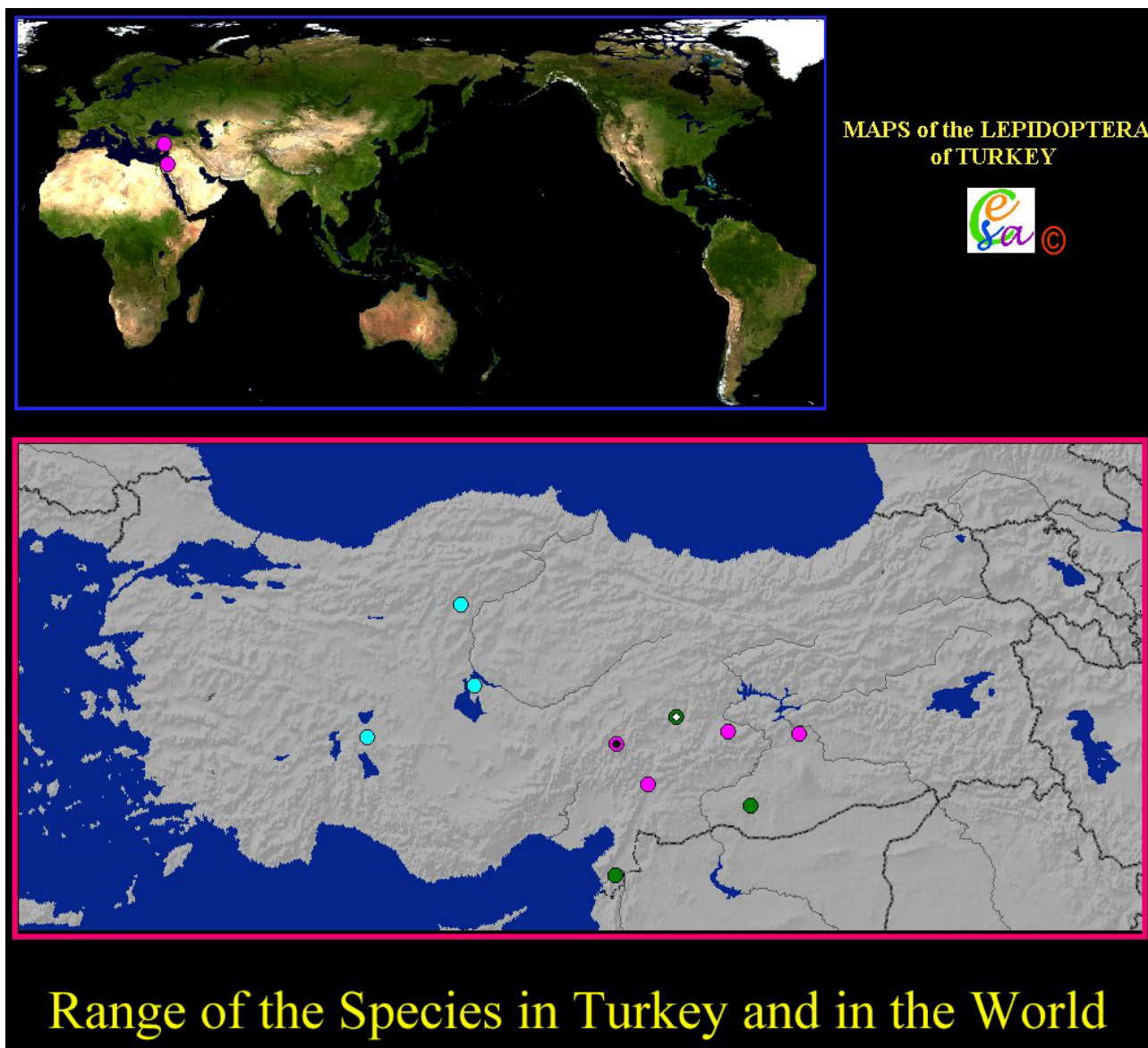
Remarks: This species may be considered as ssp. *ingloria*. The nominate subspecies, which is easily distinguishable by well developed “rosy-purplish” colouration on the upperside of forewing. It was commonly found by the authors at Beydağı Nat. Park (44Lc) near the Malatya city.

Taxonomically, Ronkay (1990) established a distinct subgenus, *Antholopha*, with the type-species, *gloriosa* Stgr. Ronkay followed Amsel’s argument regarding the two subspecies, i.e., *ingloria* and *gloriosa* of the species *Metalopha gloriosa* Stgr. He selected also Lectotype of *gloriosa* from Saimbeyli, and mentioned two further localities, Maraş and Ergani for *gloriosa*. He also added Hatay and Urfa provinces for *ingloria*. These subspecies are easily distinguishable from each other especially the colouration of upperside of forewing. According to our knowledge, both subspecies occur in Malatya Province but from different geographical locations (**Map 1**). It is interesting that the distributions of *gloriosa* and *ingloria* are apparently not allopatric in the map; therefore it doesnot support the subspecification mentioned above. For the purpose of clarification of this case, it needs further faunistical studies in SE Turkey.

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Figs. 11, 12 - *Metalopha gloriosa* ssp. *ingloria*. Upperside of male (left). Male genitalia with removed aedeagus (right) (GP2782). Malatya Pr. Darende, Beybağı 1200m (44Ei), M. Kemal (Cesa)



Map 1 – *Metalopha gloriosa* in Turkey. Subspecies: *gloriosa* (pink), *ingloria* (green), *victorina* (blue). Saimbeyli (type-locality) of *gloriosa* (pink with black centered), Beybağı (current locality of *ingloria*) (green with white centered). A.Koçak (Cesa)

82. *Mythimna (Aletia) vitellina* (Hübner, [1808])

Range in Turkey as codes: 01 03 05 06 07 08 09 13 16 17 18 21 22 23 24 25 27 28 29 30 31 33 34 35 36 37 39 42 44 45 46 48 49 50 51 52 56 58 62 63 65 73 75 76 80 05A 06E 06Ea 06R 06Rb 06Rq 06Y 06Yb 07B 07Bb 13A 13Ab 13Ax 13G 13Gü 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 30D 30Df 30Dx 33A 33Ae 33G 36D 36Db 36F 36Fb 44E 44Eh 44Ei 44L 44Lc 46G 46Gf 48L 49F 49Fb 56E 56Eh 56F 56Fa 56Fb 56Fh 56Fo 56Fv 56F3 56F1 56Fs 56Fç 56Fy 56Fc 58G 62G 62Gb 63D 63E 65A 65Ai 65An 65Am 65Am2 65D 65Df 65Di 65Dlc 65Ds 65Du 65Dv

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

83. *Phlogophora meticulosa* (Linnaeus, 1758)

Range in Turkey as codes: 05 06 07 13 14 16 18 21 24 25 33 34 36 38 44 46 50 51 56 58 62 65 05A 06R 06Rb 06Y 06Yb 13G 13Gs 13Gw 16A 21L 21Lc 21N 21Nb 21Nh 25D 36D 36Db 38H 38Hc 44E 44Ei 56E 56Eh 56F 56Fa 56Fv 58G 62G 62Gb 65A 65Am 65Am4 65D 65Df 65Dv 65F 65Fp 65Fz 65N 65Nc 65L 65Lb

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84. *Pseudenargia deleta* (Osthelder, 1933)

Range in Turkey as codes: 01 04 13 23 30 36 44 46 56 58 62 63 65 73 04D 04Da 13C 13Cf 13D 13Da 30B 30Bh 30Bj1 30D 30Df 36F 36Fb 38G 44E 44Ei 44F 44Fb 44I 44Ic 56F 56Fö 63B 65A 65Am 65Am4 65D 65Df 65F 65Fa 65F1 65Fm 65Fp 65Fz 65Fş 65K 65Ku 65Z 65N 65Np 65Np7 65Nm 73C 73Cd

85. *Teinoptera oliva* (Staudinger, [1895])

Range in Turkey as codes: 01 18 24 25 32 37 42 44 50 51 58 60 70 37Y 44E 44Ei 50G 50Gc 70C 70Cf

Material studied: 13♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

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86. *Zekelita (Ravalita) ravalis* (Herrich-Schäffer, [1852])

Range in Turkey as codes: 01 05 06 07 08 13 18 24 25 27 30 31 33 35 42 44 46 47 50 56 58 62 65 69 70 76 05A 06R 06Y 08H 08Ha 13A 27D 27Da 30B 30Bc1 30Bx 30D 30Dx 31K 31Ka 31Ka5 44E 44Eh 44Ei 50G 50Ga 56F 56Fv 56Fç 56Fö 58G 58Gb 58N 65D 65Du 65G 65Gb 65K 65Kz 65Kğ 65N 65Np5 65Nm 76C

Material studied: 20♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

Oecophoridae**87. *Crossotocera wagnerella* Zerny, 1930**

Range in Turkey as codes: 13 42 13A 13Ab 13Ac 13Ac2 13Ax 42B 44 44E 44Ei

Material: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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Pterophoridae

Seven specimens of 3 species were collected by the author. They will be separately studied.

Pyalidae**88. *Acrobasis* sp.1**

Material: 7♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Remarks: Discal marking on upperside of forewing as in *legatea*, but other markings and colouration are different.

89. *Acrobasis* sp.2

Material: 8♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Remarks: Its habitus different from all european *Acrobasis* species.

90. *Ancylosis rhodochrella* (Herrich-Schäffer, 1855)

Range in Turkey as codes: 01 03 05 06 07 16 21 27 31 42 44 46 58 71 76 05A 16A 27D 27Da 27Db 31M 44E 44Ei

Material studied: 5♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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91. *Ecpyrrhorhoe diffusalis* (Guenée, 1854)

Range in Turkey as codes: 01 05 06 13 16 21 30 31 36 38 42 44 46 47 56 60 65 71 73 05A 06R 13A 13Ab 13Ax 13F 13F6 16A 21L 21Lc 30D 30Df 31K 31Ka 31Ka3 31M 36D 36Db 44E 44Ei 44I 44Ic 44L 44Lc 46G 46Gf 56F 56F1 65A 65Am 65Am1 65Am2 65Am4 65Ab 65Aba 65D 65Df 65Dg 65Dv 65Dt 65Ds 65F 65Fç 65Fp 65Fz 65G 65Gb 65N 65Np6 65Nm 73A 73Aç2 73Ad 73Ad2

92. *Epactoctena octogenalis* (Lederer, 1863)

Range in Turkey as codes: 13 21 23 31 33 44 46 47 56 63 65 73 13G 13Gg 13F 21N 21Nb 31A 31M 33O 44E 44Ei 47D 56F 56Fb 56Fm 63D 63Dd 65L 65Le 65N 65Nf 65Np 65Nm 73A 73Aç 73Aç2

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93. *Epiepischnia pseudolydella* Amsel, 1954

Range in Turkey as codes: 06 13 44 46 65 71 06R 13A 13Ab 13Ax 13F 13F6 44E 44Ei 65A 65Am 65Am3 65At 65At5 65D 65F 65Fp 65Fz 65G 65Gf 65Gy 65L 65Le 65N 65Np6 65Nm

Material studied: 3♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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94. *Epischnia prodromella* (Hübner,[1799])

Range in Turkey as codes: 01 05 06 08 13 16 21 27 31 32 34 42 44 46 56 58 65 05A 08H 08Ha 13A 13Ac 13Ac2 13Ax 13F 16A 21L 21Lc 27D 27Da 31M 44E 44Ei 44I 44Ic 56F 56Fi 65A 65Am 65Am1 65Am4 65D 65N 65Nc 65Nc4 65Nr7 65Nm

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

95. *Etiella zinckenella* (Treitschke,1832)

Range in Turkey as codes: 01 05 06 09 13 16 17 31 33 39 44 46 58 65 71 76 80 05A 09K 09Ka 13A 13Ab 13Ax 13F 16A 31M 33A 33Ac 33Ae 44E 44Ei 44L 44Lc 65N 65Np 65Np5 65Nm 76A 76Ac 76B 76Bb

Material studied: 3♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

96. *Euzopherodes lutisignella* (Mann,1869)

Range in Turkey as codes: 13 21 23 30 31 35 38 42 44 46 47 56 65 13F 30D 30Df 31M 42B 42J 44E 44Ei 47D 47Dc 56F 56Fg 65D 65Dt

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

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97. *Evergestis desertalis* (Hübner,[1813])

Range in Turkey as codes: 05 06 26 36 42 44 76 05A 36D 36Db 44E 44Eh 44Ei 76B 76Bb 76C

Material studied: 3♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

98. *Evergestis extimalis* (Scopoli,1763)

Range in Turkey as codes: 06 30 44 45 58 30D 30Df 44E 44Ei 44L 44Lc

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

99. *Evergestis frumentalis* (Linnaeus,1761)

Range in Turkey as codes: 05 06 08 13 16 17 30 32 36 38 42 44 65 71 76 05A 06N 06Nc 06R 06Rd 06Rh 13G 13Gw 13Gs 16A 30D 30Df 36D 36Db 44E 44Ei 65D 65Df 65Dh 65Dx 65Dl 65Dlc 65E 65Eb 65Ec 65Fz 65M 65Mc 65Md 76A 76Ac 76Ae 76B 76Bf 76Bh

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

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100. *Evergestis mundalis* (Guenée,1854)

Range in Turkey as codes: 13 30 31 44 65 13F 30D 30Df 31M 44E 44Ee 44Ei 65A 65Am 65Am1 65B 65Bo 65Bx 65D 65Df 65F 65Fp 65Fz 65K 65Kz 65Kg 65N 65Np1 65Np2 65Np4 65Nr2 65Nm

Material studied: 3♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

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101. *Evergestis politalis* ([Denis & Schiffermüller],1775)

Range in Turkey as codes: 05 06 13 16 38 42 44 58 65 05A 13A 13Ab 13Ax 16A 44E 44Eh 44Ei 65F 65Fp 65Fz 65L 65Le

Material studied: 8♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

102. *Evergestis umbrosalis* (Fischer v. Röslerstamm,[1842])

Range in Turkey as codes: 05 06 08 12 13 14 16 30 31 34 44 46 51 65 69 70 05A 08H 08Ha 12A 12Ab 13B 13Bg 13G 13Gw 13Gü 13Gs 16A 30B 30Bb 30Bk 31F 31Fb 44E 44Ei 46G 46Gi 65F 65Fr 65Fw 65Fz 70C 70Cg

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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103. *Hyperlais dulcinalis* (Treitschke,1835)

Range in Turkey as codes: 05 06 13 30 44 46 65 70 71 76 05A 06R 13F 30D 30Df 44E 44Ei 65A 65Am 65Am1 65D 65Dg 65F 65Fr 65G 65Gf 65Gy 65L 65Lb 65Le 65N 65Np 65Np1 65Np2 65Np6 65Nm 76C

Material studied: 20♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

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104. *Hypochalcia* sp.

Material: 5♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

105. *Mecyna amasialis* (Staudinger, 1879)

Range in Turkey as codes: 05 06 29 44 05A 06B 06V 06Ve 29A 44E 44Ei

Material studied: 7♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

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106. *Mecyna subsequalis* (Herrich-Schäffer, 1855)

Range in Turkey as codes: 01 05 06 13 24 29 30 31 32 44 46 56 58 65 69 71 76 80 05A 06H 06R 13A 13Ab 13Ac 13Ac2 13Ax 13F 13F01 13F35 13F38 13F7 13F71 13G 13Gü 13Gw 29A 30B 30Bc1 30Bx 30D 30Df 31K 31Ka 31Ka3 31Ka6 44E 44Ei 56F 56Fs 56Fs1 65A 65At 65At5 65Ab 65Aba 65B 65Bo 65Bx 65D 65Df 65Dh 65Dv 65Dt 65F 65Fz 65Fp 65G 65Gb 76C 76D 76Dd

107. *Myelois (Gnathogutta) pumicosa* Lederer, 1855

Range in Turkey as codes: 13 21 44 46 56 65 13F 21F 44E 44Ei 56F 56Fb 56Fs 56Fs1 65A 65Am 65Am1 65Am4 65D 65Ds 65F 65Fg

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

This is a westernmost record of the species. New to Malatya Province!

108. *Myelois (s.str.) cribratella* Zeller, 1847

Range in Turkey as codes: 06 44 73 44E 44Ei 44L 73A 73Ak

Leraut (2014: pl.52 fig.11) illustrated a male from Malatya.

Material studied: 13♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

109. *Nomophila noctuella* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 01 05 06 08 11 13 14 16 17 21 30 31 32 33 34 35 37 38 39 44 46 48 49 55 56 58 60 63 65 71 73 76 80 05A 06R 08H 08Ha 13A 13Aa 13Ab 13Ac 13Ac2 13Ac3 13Ax 13B 13Ba 13F 13F6 13G 13G1 13Gö 13Gg 13Gw 13Gü 13Gs 16A 21N 21Nb 21Nc 30B 30Bc1 30Bx 30Br 30D 30Df 31A 31H 31M 33A 33Ad 33Aj 44E 44Ei 44L 44Lc 48L 49F 49Fb 49Ff 55F 56D 56Dc 56F 56Fo 58G 60G 63B 63Ba 63D 65A 65Ai 65An 65Am 65Am1 65Am2 65Am3 65Ab 65Aba 65D 65Da 65Dd 65Dda 65Df 65Dh 65Dg 65Di 65Dlc 65Dr 65Dt 65Du 65Dv 65E 65Eb 65Ec 65Ec 65Ed 65F 65Fb 65Fc 65Fd 65Fp 65Fw 65Fz 65G 65Gb 65Gf 65Gn 65Gy 65N 65Nc 65Nc4

110. *Oncocera semirubella* (Scopoli, 1763)

Range in Turkey as codes: 01 05 06 07 08 09 13 14 16 17 26 30 31 33 36 44 46 48 56 65 71 75 76 80 81 05A 06R 06Rd 07B 07Bb 08H 08Ha 13F 16A 30D 30Df 31A 31G 31O 31M 36D 36Db 44E 44Ei 48L 56F 65A 65Ai 65D 65Dv 65F 65Fç 65Fz 75F 75Fb 75Fd

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111. *Pempelia palumbella* ([Denis & Schiffermüller], 1775)

Range in Turkey as codes: 01 05 06 27 31 33 42 44 46 56 80 05A 27D 27Db 31K 31Ka 31Ka3 42J 44E 44Ei 56F 56Fb

Material studied: 7♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

112. *Pyralis kacheticalis* (Christoph, 1893)

Range in Turkey as codes: 01 05 06 07 13 21 30 31 33 44 56 65 73 01H 07B 07Bb 13F 13F7 13F71 21N 21Nb 30D 30Df 31K 31Ka 31Ka6 33A 33Ad 44E 44Ei 44I 44Ic 56F 56F1 56Fm 56Fö 65A 65Ai 65D 65Di 65Dlc 65Du 65Dv 73A 73Aç2

113. *Pyrausta aurata* (Scopoli, 1763)

Range in Turkey as codes: 01 05 06 13 14 16 23 30 31 42 44 56 65 71 76 05A 06R 06Rd 13A 13Ab 13Ax 13C 13Cc 13Cd 13F 13F7 13F71 13G 13Gf 13Gg 13Gw 13Gü 16A 30D 30Df 30Dx 31K 31Ka 31M 44E 44Ei 44F 44Fb 44I 44Ic 56F 56Fb 65A 65Ag 65Ai 65Am 65Am2 65At 65At5 65G 65Go 65F 65Fp 65Fz 76D 76Dd

114. *Pyrausta castalis* Treitschke, 1829

Range in Turkey as codes: 05 06 13 16 25 30 37 42 44 65 69 70 71 73 76 05A 06R 13F 16A 25F 25Fa 30D 30Df 44E 44Ei 44L 44Lc 65A 65Am 65Am4 65At 65At5 65D 65Dg 65F 65Fr 65G 65Gf 65Gy 65N 65Np2 65Nm 69B 69Ba 70C 70Ce 73A 73Aç 73Aç2 73Ak 76C

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

115. *Pyrausta ferrealis* (Hampson, 1900)

Range in Turkey as codes: 06 13 27 44 46 47 56 65 73 13F 13F01 13F35 13F38 13F41 27D 27Da 27Db 44E 44Eh 44Ei 44I 44Ic 44L 44Lc 47D 47Db 56F 56Fv 65B 65Bo 65D 65Dj 73A 73Ak

Material studied: 3♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

116. *Udea ferrugalis* (Hübner, 1796)

Range in Turkey as codes: 01 03 05 06 07 13 14 16 17 26 30 31 32 33 34 35 38 42 44 46 48 49 56 58 63 65 71 75 76 80 05A 06R 06Rb 13A 13Ab 13Ax 13F 13G 13Gö 13Gğ 16A 30D 30Df 31K 31Ka 31M 33A 33Ac 33Ae 44E 44Ei 44L 44Lc 48L 49F 49Fb 56F 63D 65A 65Ai 65Am 65Am2 65Am4 65D 65Df 65Du 65Dv 65F 65Fd 65Fp 65Fz 65K 65Kl 65Z 65Ku 65N 65Nc 65Nc4 65Np1 65Nm 75F 75Fb 76D 76Dd 80B 80Bc

Sphingidae**117. *Hyles euphorbiae* (Linnaeus, 1758)**

Range in Turkey as codes: 01 05 06 07 09 10 13 14 15 16 17 20 21 24 25 30 32 33 35 36 42 45 44 46 47 48 50 51 56 58 60 63 65 70 73 76 01H 05A 06R 06Ra 06Re 10C 10D 13A 13Ab 13Ae 13Ax 13F 16A 21L 21Lc 21N 21Nb 24G 25C 25Ca 30B 30Bd 30Bx 30D 30Da 30Df 33R 33Rd 36D 51D 44E 44Ei 47F 47Fa 48G 48Gb 56F 56Fh 56Fa 56Fs 58G 58Gg 60C 63B 65A 65An 65Am 65Am1 65Ac 65Ac3 65B 65Bo 65Bx 65D 65Df 65Dg 65Dga 65F 65Fb 65Fe 65Fş 65Fz 65G 65Gf 65Gy 65N 65Nc 65Nc4 65Np 65Np1 65Np2 65Nm 70C 70Cf 73C 73Cd 73D 73Da 76A 76Ac 76B 76Bb

New to Malatya Province!

118. *Hyles siehei* (Püngeler, 1903)

Range in Turkey as codes: 38 42 44 46 70 71 44E 44Ei 70C 70Cf 70Ch

Material studied: 5♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

New to Malatya Province!

119. *Laothoe populeti* (Bienert, [1870])

Range in Turkey as codes: 02 05 06 12 13 25 30 32 36 42 44 46 48 53 56 60 65 71 75 02E 02Ec 05A 06R 06Ra 12E 13A 13Ab 13Ax 13F 13F38 13F7 13F71 13G 13Gü 13Gw 30B 30Bd 30Bx 30C 30Cd 30D 30Da 30Df 36D 36Db 36F 44E 44Eh 44Ei 46G 48L 56F 56F6 56F3 56F1 60C 65A 65Ai 65An 65Am 65Am1 65D 65N 65Np 65Nm 75F 75Fb

Material studied: 1♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Tortricidae**120. *Aethes moribundana* (Staudinger, 1859)**

Range in Turkey as codes: 05 13 14 16 42 44 46 71 05A 13F 13F71 16A 42R 44E 44Ei

Prep. no: GP2832♂, GP2833♂.

Material studied: 1♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22 5 2017, A.Koçak leg. (Cesa).

New to Malatya and Bitlis (Mutki) Provinces (cf. Kemal & Koçak, 2017)!

121. *Aethes* sp.

Six specimens mentioned below belong to 3 species of the genus *Aethes*. They will be separately studied.

Material: Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

122. *Bactra* sp.

Material: 3♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

123. *Cnephasia* sp.

Material studied: 2♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

124. *Cochylis similana* Razowski, 1963

(Figs.13-16)

Range in Turkey as codes: 44 44E 44Ei

Material studied: 1♂ (GP2829). Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Remarks: A single male but easy to identify by using external and genitalic characters mentioned by Razowski (2009). The species was originally described by Razowski (1963: 275, figs. 65-67) from Iran (Yezd). It is currently also known from Lebanon, Caucasus, and Afghanistan (Razowski, 2009).

New to the fauna of Turkey!



Figs. 13-16 - *Cochylis similana*. Upperside of male (top left), lateral view of head with labial palpi (top right), male genitalia and abdominal skin (GP2829♂), Malatya Pr., Darende, Beybağı 1200m. Compare with the illustrations published by Razowski (1963: 275, figs. 65-67) M. Kemal (Cesa)

125. *Diceratura* sp.n.

This beautiful new species will be separated described soon.

126. *Eucosma* sp.

Material: 17♂♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 22-25 5 2017, A.Koçak leg. (Cesa).

127. *Notocelia cynosbatella* (Linnaeus, 1758)

Range in Turkey as codes: 05 13 14 16 42 44 58 65 05A 13A 13Ab 13Ax 16A 44E 44Ei 65A 65Ai 65An

Material studied: 1♀. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Remarks: This is one of the little known tortricid species in Turkey. Recently, it has been reported by the authors from Van Pr. (Bahçesaray) (Kemal & Koçak, 2017a).

New to Malatya Province!

128. *Notocelia uddmanniana* (Linnaeus, 1758)

Range in Turkey as codes: 01 05 06 14 16 21 30 31 44 46 53 58 65 81 01K 05A 16A 30D 30Df 31K 31Ka 31Ka5 31Ka7 31M 44E 44Ei 44L 44Lc 58G 58Gb 65A 65Ai 65N 65Np 65Np5 65Nm

Material studied: 6♂. Malatya Prov., Darende, 1.6km N of Beybağı 1200m (44Ei), 25 5 2017, A.Koçak leg. (Cesa).

Yponomeutidae

129. *Plutella* (s.str.) *xylostella* (Linnaeus, 1758)

Range in Turkey as codes: 01 06 13 21 27 30 31 33 34 38 42 44 48 49 63 65 71 13G 13Gü 13Gw 21L 21Lf 27D 27Da 27Db 27Dc 30D 30Df 31K 31Ka 33A 33Ac 44E 44Ei 44L 44Lc 48L 49F 49Fb 63B 63Ba 65A 65Am 65Am2 65B 65Bn 65Bn1 65D 65Dy 65E 65Eb 65Ed 65F 65Fb 65Fd 65F1 65Fz 65K 65N 65Nc 65Kz 65Kg 65L 65Le

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